

**Shady Lake Water Association  
2013 WATER QUALITY  
CONSUMER CONFIDENCE REPORT**

This report shows our water quality and what it means. For additional information concerning your drinking water, contact Michael C Raymond at (530) 292-3638.

Annual board meetings are open to all association members. Water for Shady Lake W.A. comes from a well near the intersection of Shady Creek Drive and Twi-Lite.

**Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.**

**Definitions of Terms**

In this report you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

**Maximum Contaminant Level** - The "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**Maximum Contaminant Level Goal** - The "Goal"(MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are established by the federal Environmental Protection Agency (USEPA).

**Public Health Goal or PHG** - The level of a contaminant in drinking water below which there is no known or expected risk to health. PHG's are set by the California Environmental Protection Agency.

**Primary Drinking Water Standard** - MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

**Maximum Residual Disinfectant Level (MRDL)** - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG)** - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**Regulatory Action Level** - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**Treatment Technique** - A required process intended to reduce the level of a contaminant in drinking water.

**Water Testing Results**

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. The term "contaminant," as used below refers to any substance in water, other than pure water itself, that is regulated and monitored for health or aesthetic reasons.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.
- If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Shady Lake Water Association is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

In order to ensure that tap water is safe to drink, the USEPA and the State Department of Public Health

(Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It is important to remember that the presence of these contaminants does not necessarily pose a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly individuals, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers and/or the Safe Drinking Water Hotline.

**Detected Contaminants In Our Water**

Shady Lake Water Association routinely monitors for contaminants in our drinking water according to Federal and State laws. The following paragraphs and tables show the results of our most recent testing. Please note that not all testing is required annually, so in some cases our results are more than one year old.

**Microbiological Water Quality**

Testing for bacteriological contaminants in the distribution system is required by State regulations. This testing is done regularly to verify that the water system is free from coliform bacteria. The minimum number of tests required per month for our water system is one. No coliform bacteria was detected at the site in 2013.

**Violation Information**

Shady Lake Water Association is pleased to report that there were no violations issued in 2013.

## Chemicals Detected In Our Water

The following table gives a list of all regulated chemicals that were detected in our water during the most recent samplings.

Chemical Detected	Year Tested	Level Detected	MCL	PHG (or MCLG)	Origin
<b>Sodium</b>	2013	11.8 mg/L	N/A	N/A	Erosion of natural deposits
<b>Total Dissolved Solids</b>	2013	178 ppm	1000	N/A	Run-off/leaching from natural deposits
<b>Hardness</b>	2013	118 ppm	N/A	N/A	Erosion of natural deposits
<b>Chloride</b>	2013	11.4 ppm	500	500	Naturally occurring; seawater influence
<b>Specific Conductivity</b>	2013	335 µmhos/cm	1600	N/A	Substances that form ions in water; seawater influence
<b>Sulfate</b>	2013	2.3 ppm	500	500	Runoff/leaching from natural deposits; industrial wastes
<b>Barium</b>	2013	76.4	100	100	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
<b>Nitrate as N</b>	2013	1.77 ppm	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits.
<b>Cadmium</b>	2013	2.8 ppb	5	(100)	Internal corrosion of galvanized pipes, erosion of natural deposits

N/A = not applicable

The following have also been analyzed, but were not detected in the water: Aluminum, antimony, arsenic, beryllium, chromium, iron, manganese, mercury, nickel, perchlorate, selenium, silver, thallium, nitrite, fluoride, color, odor, gross alpha radioactivity, volatile organic chemicals (solvents and petroleum products), MTBE, perchlorate, sodium, and foaming agents. Although there is no MCL for sodium in public drinking water, we are providing sodium test results (non-detected) for persons who might be on a low sodium diet. The American Heart Association recommends that persons on such a diet should use drinking water containing no more than 20 ppm of sodium. Likewise, hardness results (calcium + magnesium) are provided for informational purposes only, as there is no MCL.

## Lead & Copper Testing Results

Lead & copper testing of water from individual taps in the distribution system is required by State regulations. The table below summarizes the most recent monitoring for these constituents. If the 90<sup>th</sup> percentile result does not exceed the action level for either lead or copper, the water system is in compliance.

	Year Tested	No. of Samples Collected	No. of Samples Required	90 <sup>th</sup> Percentile Result (ppb)	No. Samples Above Action Level	Action Level (ppb)
<b>Lead</b>	2011	5	5	4	0	15
<b>Copper</b>	2011	1	5	462	0	1300